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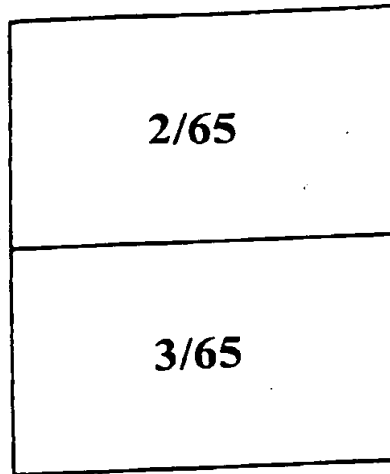


Figure 1

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[illegible]

1	ATTCGGGCG	AGGAGGAGG	AAGAAGCGGA	GGAGGGGGCT	CCCGCTCGCA
51	GGGCCGTGCA	CCTGCCCGCC	CGCCCGCTCG	CTCGCTCGCC	CGCCGCGCCG
101	CGCTGCCGAC	CGCCAGCATG	CTGCCGAGAG	TGGGCTGCCC	CGCGCTGCCG
151	CTGCCGCCGC	CGCCGCTGCT	GCCGCTGCTG	CCGCTGCTGC	TGCTGCTACT
201	GGGCGCGAGT	GGCGCGGGCG	GCGGGCGCGG	CGCGGAGGTG	CTGTTCCGCT
251	GCCCGCCCTG	CACACCCGAG	CGCCTGGCCG	CCTGCGGGCC	CCCGCCGGTT
301	GCGCCGCCCG	CCGCGGTGGC	CGCAGTGGCC	GGAGGCGCCC	GCATGCCCATG
351	CGCGGAGCTC	GTCCGGGAGC	CGGGCTGCCG	CTGCTGCTCG	GTGTGCGCCC
401	GGCTGGAGGG	CGAGGCGTGC	GGCGTCTACA	CCCCGCGCTG	CGGCCAGGGG
451	CTGCGCTGCT	ATCCCCACCC	GGGCTCCGAG	CTGCCCTGTC	AGGCGCTGGT
501	CATGGGCGAG	GGCACTTGTG	AGAAGCGCCG	GGACGCCGAG	TATGGCGCCA
551	GCCCCGAGCA	GGTTGCAGAC	AATGGCGATG	ACCACTCAGA	AGGAGGCCCTG
601	GTGGAGAACC	ACGTGGACAG	CACCATGAAC	ATGTTGGCGG	GGGAGGCGAG
651	TGCTGGCCGG	AAGCCCCCTCA	AGTCGGGTAT	GAAGGAGCTG	GCCGTGTTCC
701	GGGAGAAGGT	CACTGAGCAG	CACCGGCAGA	TGGCAAGGG	TGGCAAGCAT

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FIGURE 1 (continued...)

751 CACCTTGGCC TGGAGGAGCC CAAGAAGCTG CGACCACCCC CTGCCAGGAC
 801 TCCCTGCCAA CAGGAACTGG ACCAGGTCCT GGAGCGGATC TCCACCATGC
 851 GCCTTCCGGA TGAGCGGGGC CCTCTGGAGC ACCTCTACTC CCTGCACATC
 901 CCCAACTGTG ACAAGCATGG CCTGTACAAC CTCAAACAGT GCAAGATGTC
 951 TCTGAACGGG CAGCGTGGGG AGTGCTGGTG TGTGAACCCC AACACCGGGA
 1001 AGCTGATCCA GGGAGCCCCC ACCATCCGGG GGGACCCCGA GTGTCACTC
 1051 TTCTACAATG AGCAGCAGGA GGCTTGCGGG GTGCACACCC AGCGGATGCA
 1101 GTAGACCGCA GCCAGCCGGT GCCTGGCGCC CCTGCCCCCC GCCCCTCTCC
 1151 AAACACCGGC AGAAACCGA GAGTGCTTGG GTGGTGGGTG CTGGAGGATT
 1201 TTCCAGTTCT GACACACGTA TTTATATTG GAAAGAGACC AGCACCGAGC
 1251 TCGGCACCTC CCCGGCCTCT CTCCTCCCAG CTGCAGATGC CACACCTGCT
 1301 CCTTCTTGCT TTCCCCGGGG GAGGAAGGGG GTTGTGGTCG GGGAGCTGGG
 1351 GTACAGGTTT GGGGAGGGGG AAGAGAAATT TTTATTTTGT AACCCCTGTG
 1401 TCCCTTTTGC ATAAGATTAA AGGAAGGAAA AGT

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Figure 2

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FIGURE 2

1 CTCAGCGCCC AGCCGCTTCC TGCCCTGGATT CCACAGCTTC GCGCCGTGTA
51 CTGTCGCCCC ATCCCTGCGC GCCCAGCCTG CCAAGCAGCG TGCCCCGGTT
101 GCAGGCGTCA TGCAGCGGGC GCGACCCACG CTCTGGGCCG CTGCGCTGAC
151 TCTGCTGGTG CTGCTCCGCG GCGCGCCGGT GCGCGGGCT GCGCGAGCT
201 CGGGGGGCTT GGGTCCCGTG GTGCGCTGCG AGCCGTGCGA CGCGCGTGCA
251 CTGGCCCAGT GCGCGCCTCC GCCCGCCGTG TCGCGGAGC TGGTGCGCGA
301 GCCGGGCTGC GGCTGCTGCC TGACGTGCGC ACTGAGCGAG GGCCAGCCGT
351 GCGGCATCTA CACCGAGCGC TGTGGCTCCG GCCTTCGCTG CCAGCCGTCG
401 CCCGACGAGG CGCGACCGCT GCAGGCGCTG CTGGACGGCC GCGGGCTCTG
451 CGTCAACGCT AGTGCCGTCA GCCGCCGTG CGCCTACCTG CTGCCAGCGC
501 CGCCAGCTCC AGGAAATGCT AGTGAGTCGG AGGAAGACCG CAGCGCCGGC
551 AGTGTGGAGA GCCCGTCCGT CTCCAGCACG CACCGGGTGT CTGATCCCAA
601 GTTCCACCCC CTCCATTCAA AGATAATCAT CATCAAGAAA GGGCATGCTA
651 AAGACAGCCA GCGCTACAAA GTTGACTACG AGTCTCAGAG CACAGATACC
701 CAGAACTTCT CCTCCGAGTC CAAGCGGGAG ACAGAAATAG GTCCCTGCCG

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FIGURE 2 (Continued...)

751 TAGAGAAATG GAAGACACAC TGAATCACCT GAAGTTCCTC AATGTGCTGA
801 GTCCCAGGGG TGTACACATT CCCAACTGTG ACAAGAAGGG ATTTTATAAG
851 AAAAAGCAGT GTCGCCCTTC CAAAGGCAGG AAGCGGGGCT TCTGCTGGTG
901 TGTGGATAAG TATGGGCAGC CTCTCCCAGG CTACACCACC AAGGGGAAGG
951 AGGACGTGCA CTGCTACAGC ATGCAGAGCA AGTAGACGCC TGCCGCAAGT
1001 TAATGTGGAG CTCAAATATG CCTTATTTTG CACAAAAGAC TGCCAAGGAC
1051 ATGACCAGCA GCTGGCTACA GCCTCGATT TATTTCTGT TTGTGGTGAA
1101 CTGATTTTTT TTAACCCAAA GTTTAGAAAG AGGTTTTTGA AATGCCCTATG
1151 GTTTCCTTGA ATGGTAAACT TGAGCATCTT TTCACTTTCC AGTAGTCAGC
1201 AAAGAGCAGT TTGAATTTTC TTGTCGCTTC CTATCAAAAT ATTCAGAGAC
1251 TCGAGCACAG CACCAGACT TCATGCGCCC GTGGAATGCT CACCACATGT
1301 TGGTCGAAGC GGCCGACCAC TGACTTTGTG ACTTAGGCGG CTGTGTGCGC
1351 TATGTAGAGA ACACGCTTCA CCCCACCTCC CCGTACAGTG CGCACAGGCT
1401 TTATCGAGAA TAGGAAAACC TTAAACCCC GGTCATCCGG ACATCCCAAC
1451 GCATGCTCCT GGAGCTCACA GCCTTCTGTG GTGTCAATTC TGAACAACAGG

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FIGURE 2 (Continued...)

1501 GCGTGGATCC CTCAACCAAG AAGAATGTTT ATGTCTTCAA GTGACCTGTA
 1551 CTGCTTGGG ACTATTGGAG AAAATAAGGT GGAGTCCTAC TTGTTTAAAA
 1601 AATATGTATC TAAGAATGTT CTAGGGCACT CTGGGAACCT ATAAAGGCAG
 1651 GTATTTCGGG CCTCCTCTT CAGGAATCTT CCTGAAGACA TGGCCCAGTC
 1701 GAAGGCCCCAG GATGGCTTTT GCTGCGGCCC CGTGGGGTAG GAGGGACAGA
 1751 GAGACGGGAG AGTCAGCCTC CACATTCAGA GGCAACACAA GTAATGGCAC
 1801 AATTCTTCGG ATGACTGCAG AAAATAGTGT TTTGTAGTTC AACAACTCAA
 1851 GACGAAGCTT ATTTCTGAGG ATAAGCTCTT TAAAGGCAAA GCTTTATTTT
 1901 CATCTCTCAT CTTTGTGCTT CCTTAGCACA ATGTAAAAAA GAATAGTAAT
 1951 ATCAGAACAG GAAGGAGGAA TGGCTTGCTG GGGAGCCCAT CCAGGACACT
 2001 GGGAGCACAT AGAGATTAC CCAATGTTGT TGAACCTAGA GTCATTCTCA
 2051 TGCTTTTCTT TATAATTAC ACATATATGC AGAGAAGATA TGTTCCTGTT
 2101 AACATTGTAT ACAACATAGC CCCAAATATA GTAAGATCTA TACTAGATAA
 2151 TCCTAGATGA AATGTTAGAG ATGCTATATG ATACAACTGT GGCCATGACT
 2201 GAGGAAAGGA GCTCAGCCCC AGAGACTGGG CTGCTCTCCC GGAGGCCAAA

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FIGURE 2 (Continued...)

2251 CCCAAGAAGG TCTGGCAAAG TCAGGCTCAG GGAGACTCTG CCCTGCTGCA
2301 GACCTCGGTG TGGACACACG CTGCATAGAG CTCCTCTTGA AACACAGAGG
2351 GTCTCAAGAC ATTCTGCCCTA CCTATTAGCT TTTCTTTATT TTTTAACTT
2401 TTTGGGGGGA AAAGTATTTT TGAGAAAGTTT GTCTTGCAAT GTATTATATA
2451 ATAGTAAATA AAGTTTTTAC CATT

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Figure 3

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FIGURE 3

1 TTTT TTTT TTTTGAGAAA GGGAATTTCA TCCCAAATAA AAGGAATGAA
51 GTCTGGCTCC GGAGGAGGGT CCCC GACCTC GCTGTGGGGG CTCC TGTTC
101 TCTCCGCCGC GCTCTCGCTC TGGCCGACGA GTGGAGAAAT CTGCGGGCCA
151 GGCATCGACA TCCGCAACGA CTATCAGCAG CTGAAGCGCC TGGAGAACTG
201 CACGGTGATC GAGGGCTACC TCCACATCCT GCTCATCTCC AAGGCCGAGG
251 ACTACCGCAG CTACCGCTTC CCCAAGCTCA CGGTCATTAC CGAGTACTTG
301 CTGCTGTTCC GAGTGGCTGG CCTCGAGAGC CTCGGAGACC TCTTCCCCAA
351 CCTCACGGTC ATCCGCGGCT GAAACTCTT CTACAACTAC GCCCTGGTCA
401 TCTTCGAGAT GACCAATCTC AAGGATATTG GGCTTTACAA CCTGAGGAAC
451 ATTACTCGGG GGGCCATCAG GATTGAGAAA AATGCTGACC TCTGTTACCT
501 CTCCACTGTG GACTGTGTCCT TGATCCTGGA TCGGCTGTCC AATAACTACA
551 TTGTGGGAA TAAGCCCCCA AAGGAATGTG GGGACCTGTG TCCAGGGACC
601 ATGGAGGAGA AGCCGATGTG TGAGAAGACC ACCATCAACA ATGAGTACAA
651 CTACCGCTGC TGGACCACAA ACCGCTGCCA GAAAATGTGC CCAAGCACGT
701 GTGGGAGCG GCGGTGCACC GAGAACAAATG AGTGCTGCCA CCCCAGGTGC

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FIGURE 3 (Continued...)

751 CTGGGCAGCT GCAGCGCGCC TGACAACGAC ACGGCCTGTG TAGCTTGCCG
 801 CCACTACTAC TATGCCGGTG TCTGTGTGCC TGCCTGCCCCG CCCAACACCT
 851 ACAGGTTTGA GGGCTGGCGC TGTGTGGACC GTGACTTCTG CGCCAACATC
 901 CTCAGCGCCG AGAGCAGCGA CTCCGAGGGG TTTGTGATCC ACGACGGCGA
 951 GTGCATGCAG GAGTGCCCTT CCGGCTTCAT CCGCAACGGC AGCCAGAGCA
 1001 TGTACTGCAT CCTTGTGAA GGTCCCTTGCC CGAAGGTCTG TGAGGAAGAA
 1051 AAGAAAACAA AGACCATTGA TTCTGTTACT TCTGCTCAGA TGCTCCAAGG
 1101 ATGCACCATC TTCAAGGGCA ATTTGCTCAT TAACATCCGA CGGGGGAATA
 1151 ACATTGCTTC AGAGCTGGAG AACTTCATGG GGCTCATCGA GGTGGTGACG
 1201 GGCTACGTGA AGATCCGCCA TTCTCATGCC TTGGTCTCCT TGTCTTCTCT
 1251 AAAAAACCTT CGCCTCATCC TAGGAGAGGA GCAGCTAGAA GGAATTACT
 1301 CCTTCTACGT CCTCGACAAC CAGAACTTGC AGCAACTGTG GGACTGGGAC
 1351 CACCGCAACC TGACCATCAA AGCAGGGAAA ATGTACTTTG CTTTCAATCC
 1401 CAAATTATGT GTTCCGAAA TTTACCGCAT GGAGGAAGTG ACGGGGACTA
 1451 AAGGGGCCA AAGCAAAGGG GACATAAACA CCAGGAACAA CGGGGAGAGA

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FIGURE 3 (Continued...)

1501	GCCTCCTGTG	AAAGTGACGT	CCTGCATTTC	ACCTCCACCA	CCACGTCGAA
1551	GAATCGCATC	ATCATAACCT	GGCACCGGTA	CCGGCCCCCT	GACTACAGGG
1601	ATCTCATCAG	CTTCACCGTT	TACTACAAGG	AAGCACCCCTT	TAAGAAATGTC
1651	ACAGAGTATG	ATGGGCAGGA	TGCCCTGCCGC	TCCAACAGCT	GGAACATGGT
1701	GGACGTGGAC	CTCCCGCCCA	ACAAGGACGT	GGAGCCCGGC	ATCTTACTAC
1751	ATGGGCTGAA	GCCCTGGACT	CAGTACGCCG	TTTACGTCAA	GGCTGTGACC
1801	CTCACCATGG	TGGAGAACGA	CCATATCCGT	GGGGCCAAGA	GTGAGATCTT
1851	GTACATTTCG	ACCAATGCTT	CAGTTCCCTTC	CATTCCCTTG	GACGTTCTTT
1901	CAGCATCGAA	CTCCTCTTCT	CAGTTAATCG	TGAAGTGGAA	CCCTCCCCTCT
1951	CTGCCCAACG	GCAACCTGAG	TTACTACATT	GTGCGCTGGC	AGCGGCAGCC
2001	TCAGGACGGC	TACCTTTACC	GGCACAATTA	CTGCTCCAAA	GACAAAATCC
2051	CCATCAGGAA	GTATGCCGAC	GGCACCATCG	ACATTGAGGA	GGTCACAGAG
2101	AACCCCAAGA	CTGAGGTGTG	TGGTGGGGAG	AAAGGGCCTT	GCTGCGCCTG
2151	CCCCAAAAC	GAAGCCGAGA	AGCAGGCCGA	GAAGGAGGAG	GCTGAATACC
2201	GCAAAGTCTT	TGAGAAATTTC	CTGCACAACT	CCATCTTCGT	GCCCAGACCT

FIGURE 3 (Continued...)

2251	GAAAGGAAGC	GGAGAGATGT	CATGCAAGTG	GCCAACACCA	CCATGTCCAG
2301	CCGAAGCAGG	AACACCACGG	CCGCAGACAC	CTACAACATC	ACCGACCCGG
2351	AAGAGCTGGA	GACAGAGTAC	CCTTTCTTTG	AGAGCAGAGT	GGATAACAAG
2401	GAGAGAACTG	TCAATTCTAA	CCTTCGGCCT	TTCACATTGT	ACCGCATCGA
2451	TATCCACAGC	TGCAACCACG	AGGCTGAGAA	GCTGGGCTGC	AGCGCCTCCA
2501	ACTTCGTCTT	TGCAAGGACT	ATGCCCGCAG	AAGGAGCAGA	TGACATTCCCT
2551	GGGCCAGTGA	CCTGGGAGCC	AAGGCCTGAA	AACTCCATCT	TTTTAAAGTG
2601	GCCGGAACCT	GAGAATCCCA	ATGGATTGAT	TCTAATGTAT	GAAATAAAAT
2651	ACGGATCACA	AGTTGAGGAT	CAGCGAGAAT	GTGTGTCCAG	ACAGGAATAC
2701	AGGAAGTATG	GAGGGGCCAA	GCTAAACCCG	CTAAACCCGG	GGAACCTACAC
2751	AGCCCGGATT	CAGGCCACAT	CTCTCTCTGG	GAATGGGTGG	TGGACAGATC
2801	CTGTGTTCTT	CTATGTCCAG	GCCAAACAG	GATATGAAA	CTTCATCCAT
2851	CTGATCATCG	CTCTGCCCGT	CGCTGTCCCTG	TTGATCGTGG	GAGGGTTGGT
2901	GATTATGCTG	TACGTCTTCC	ATAGAAAGAG	AAATAACAGC	AGGCTGGGGA
2951	ATGGAGTGCT	GTATGCCTCT	GTGAACCCGG	AGTACTTCAG	CGCTGCTGAT

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FIGURE 3 (Continued...)

3001 GTGTACGTTT CTGATGAGTG GGAGTGGCT CGGAGAAGA TCACCATGAG
 3051 CCGGGAACCT GGCAGGGGT CGTTTGGAT GGTCTATGAA GGAGTTGCCA
 3101 AGGGTGTGGT GAAAGATGAA CCTGAAACCA GAGTGGCCAT TAAACAGTG
 3151 AACGAGGCCG CAAGCATGCG TGAGAGGATT GAGTTTCTCA ACGAAGCTTC
 3201 TGTGATGAAG GAGTTCAATT GTCACCATGT GGTGCGATTG CTGGGTGTGG
 3251 TGTCCCAAGG CCAGCCAACA CTGGTCATCA TGGAACTGAT GACACGGGGC
 3301 GATCTCAAAA GTTATCTCCG GTCTCTGAGG CCAGAAATGG AGAATAATCC
 3351 AGTCCTAGCA CCTCCAAGCC TGAGCAAGAT GATTCAGATG GCCGGAGAGA
 3401 TTGCAGACGG CATGGCATACT CTCAACGCCA ATAAGTTCGT CCACAGAGAC
 3451 CTTGCTGCCC GGAATTGCAT GTAGCCGAA GATTTCACAG TCAAAATCGG
 3501 AGATTTTGGT ATGACGCGAG ATATCTATGA GACAGACTAT TACCGGAAAG
 3551 GAGGCAAGG GCTGCTGCCC GTGCGCTGGA TGCTCTCTGA GTCCCTCAAG
 3601 GATGGAGTCT TCACCACTTA CTCGGACGTC TGGTCTCTCG GGTCTGTCTT
 3651 CTGGGAGATC GCCACACTGG CCGAGCAGCC CTACCAGGGC TTGTCCAACG
 3701 AGCAAGTCTT TCGCTTCGTC ATGGAGGGCG GCCTTCTGGA CAAGCCAGAC

FIGURE 3 (Continued...)

3751 AACTGTCCTG ACATGCTGTT TGAAGTATG CGCATGTGCT GGCAGTATAA
 3801 CCCCAAGATG AGGCCTTCCT TCCTGGAGAT CATCAGCAGC ATCAAAGAGG
 3851 AGATGGAGCC TGGCTTCCGG GAGTCTCCT TCTACTACAG CGAGGAGAAC
 3901 AAGCTGCCCG AGCCGGAGGA GCTGGACCTG GAGCCAGAGA ACATGGAGAG
 3951 CGTCCCCCTG GACCCCTCGG CCTCCTCGTC CTCCCCTGCC CTGCCCCGACA
 4001 GACACTCAGG ACACAAGGCC GAGAACGGCC CCGGCCCTGG GGTGCTGGTC
 4051 CTC CGCGCCA GCTTCGACGA GAGACAGCCT TACGCCCAACA TGAACGGGGG
 4101 CCGCAAGAAC GAGCGGCCT TGCCGCTGCC CCAGTCTTCG ACCTGCTGAT
 4151 CCTTGGATCC TGAATCTGTG CAAACAGTAA CGTGTGCGCA CGCGCAGCGG
 4201 GGTGGGGGGG GAGAGAGAGT TTAAACAATC CATTACACAAG CCTCCTGTAC
 4251 CTCAGTGGAT CTTCAATTCT GCCCTTGCTG CCCGCGGGAG ACAGCTTCTC
 4301 TGCAGTAAAA CACATTGGG ATGTTCCCTT TTCAATATG CAAGCAGCTT
 4351 TTTATTCCCT GCCCAAACCC TTAAGTACA TGGGCCCTTA AGAACCTTAA
 4401 TGACAACACT TAATAGCAAC AGAGCACTTG AGAACCCAGTC TCCTCACTCT
 4451 GTCCCTGTCC TTCCCTGTTC TCCCTTTCTC TCTCCTCTCT GCTTCATAAC

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FIGURE 3 (Continued...)

4501 GGAAAAATAA TTGCCACAAG TCCAGCTGGG AAGCCCTTTT TATCAGTTTG
4551 AGGAAGTGGC TGTCCCTGTG GCCCATCCA ACCACTGTAC ACACCCGCCT
4601 GACACCGTGG GTCATTACAA AAAAACACGT GGAGATGGAA ATTTTACCT
4651 TTATCTTTCA CCTTTCTAGG GACATGAAAT TTACAAAGGG CCATCGTTCA
4701 TCCAAGGCTG TTACCATTTT AACGCTGCCT AATTTGCCA AAATCCTGAA
4751 CTTTCTCCCT CATCGGCCCG GCGTGATTC CTCGTGTCCG GAGGCATGGG
4801 TGAGCATGGC AGCTGGTTGC TCCATTGAG AGACACGCTG GCGACACACT
4851 CCGTCCATCC GACTGCCCCCT GCTGTGCTGC TCAAGGCCAC AGGCACACAG
4901 GTCTCATTCG TTCTGACTAG ATTATTATT GGGGGAAC TG GACACAATAG
4951 GTCTTTCTCT CAGTGAAGGT GGGGAGAAGC TGAACCGGC

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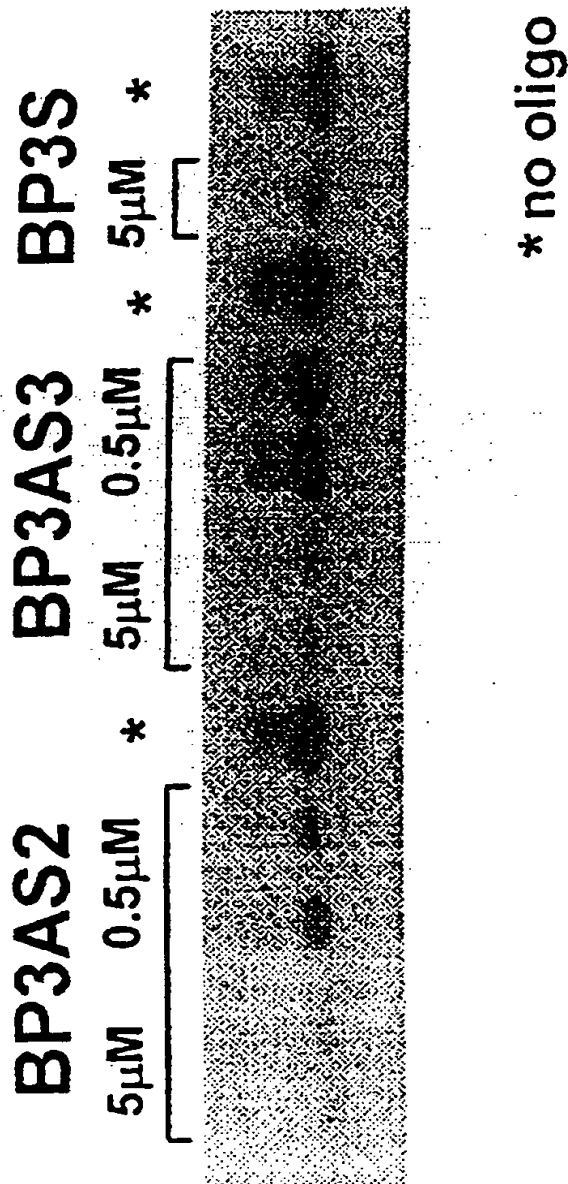


Figure 4a

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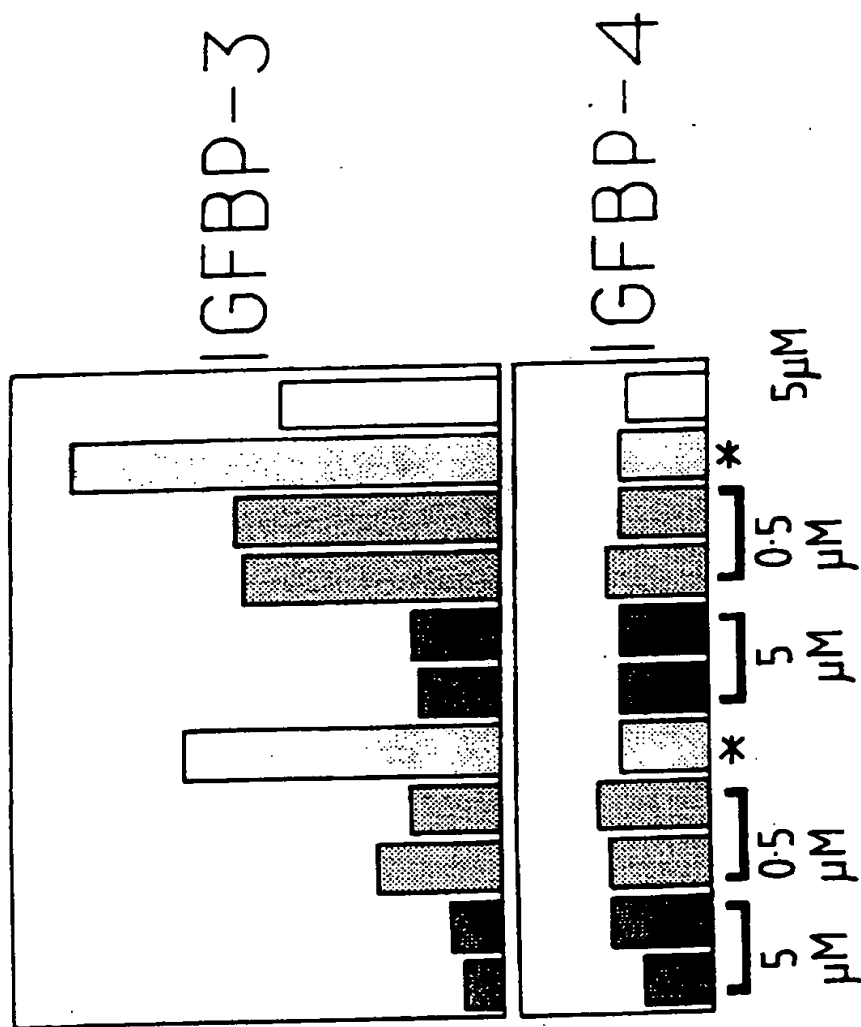


Figure 4b

BP3AS2 BP3AS3

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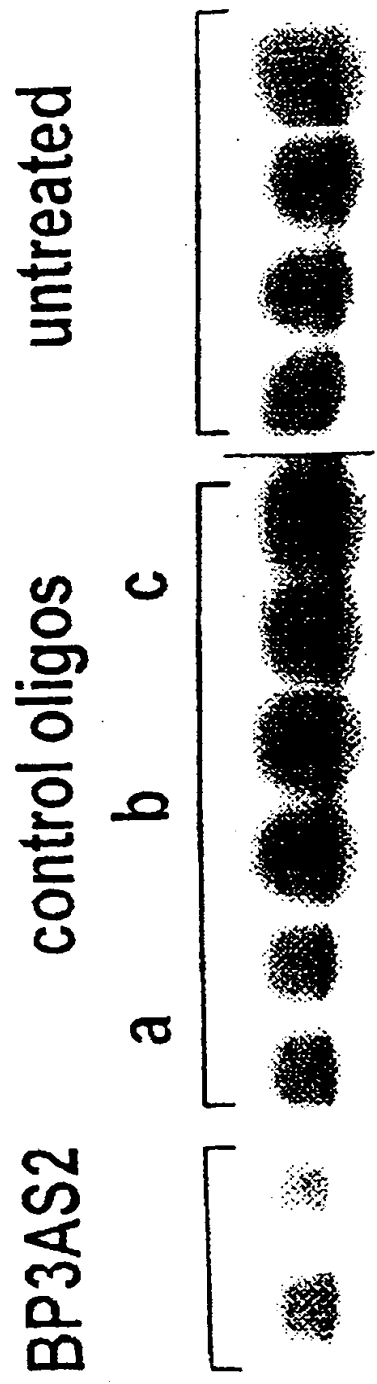


Figure 5a

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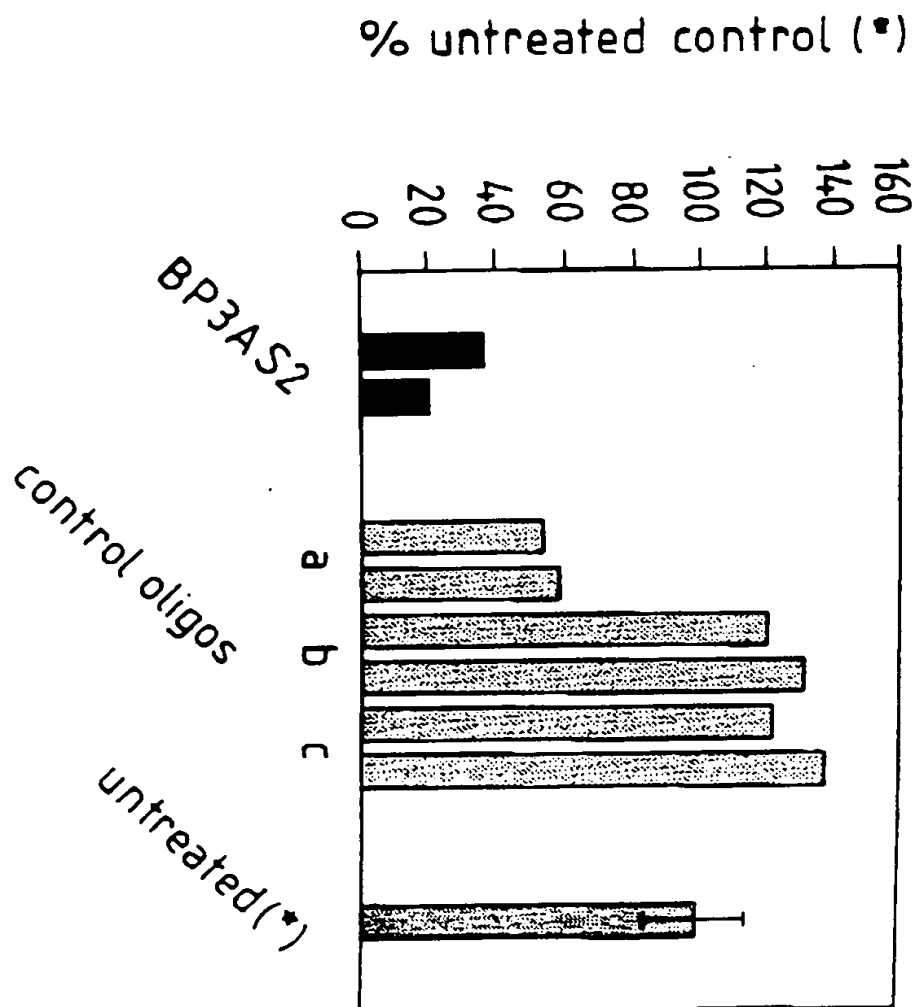
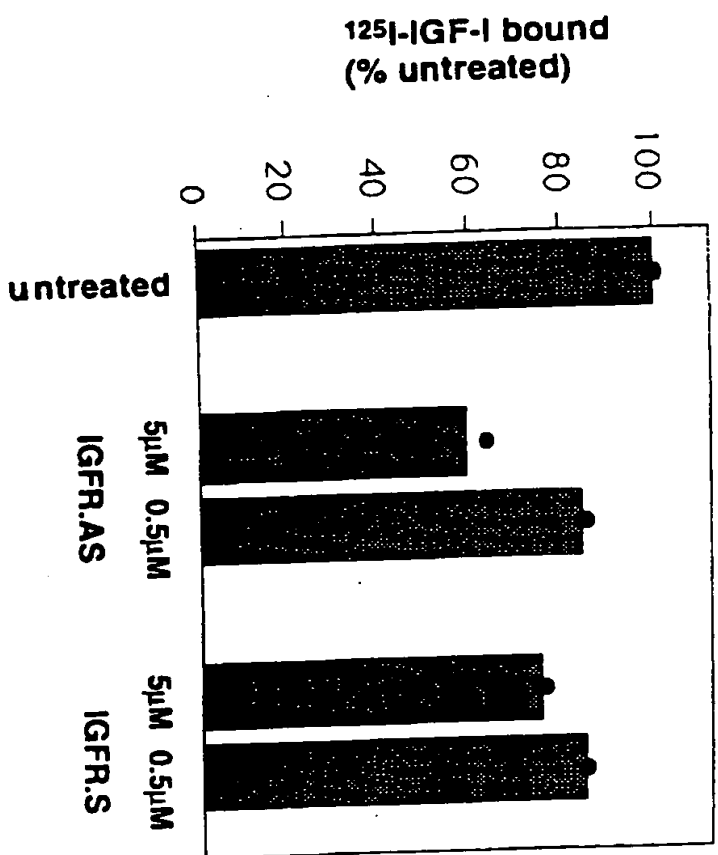


FIG 5B

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FIGURE 6 Inhibition of IGF-I binding
by antisense oligonucleotides to IGF-I receptor



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Initial treatment with AS oligos (once daily over 2 days)

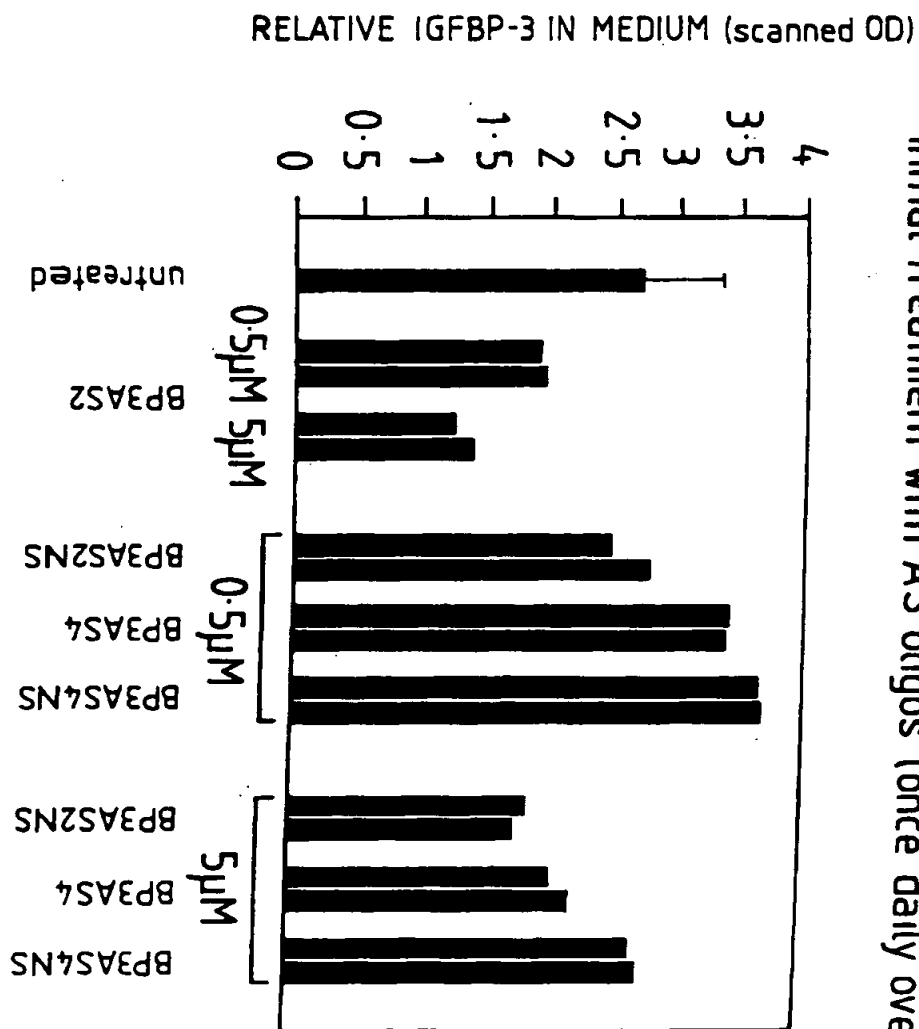


Figure 7

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Optimization of IGFBP-3 AS oligo concentration

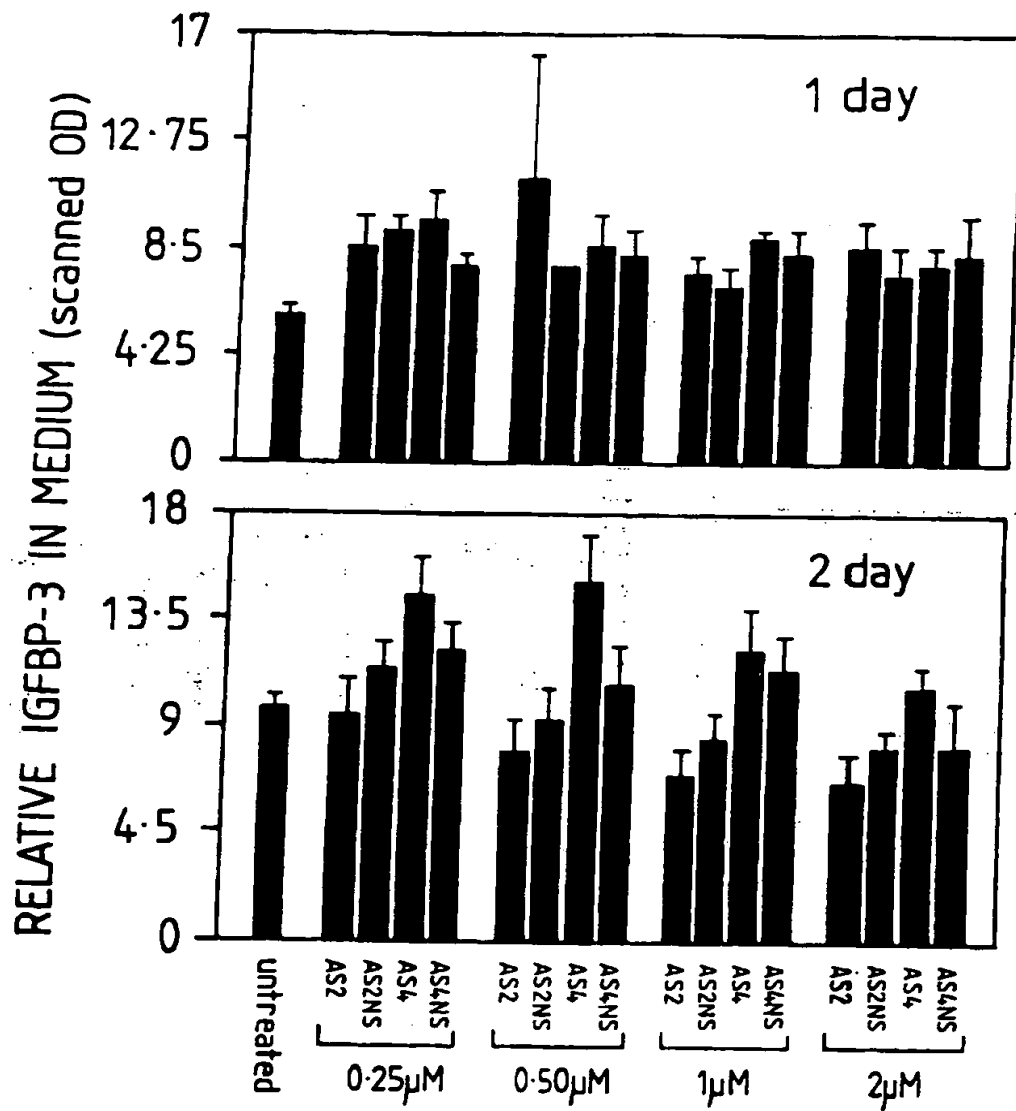
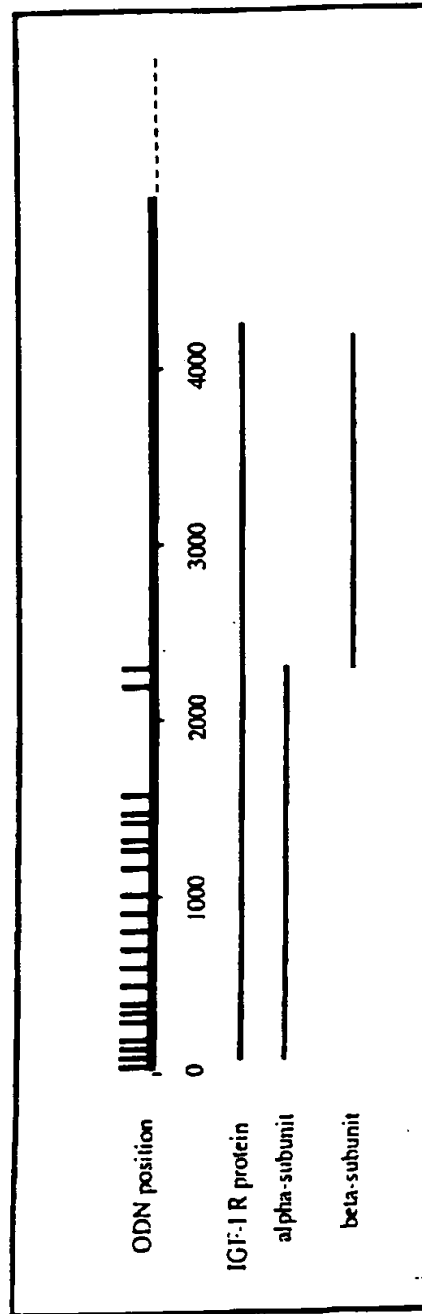


Figure 8

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**Figure 9 Map of IGF-I Receptor mRNA
and position of target ODNs**

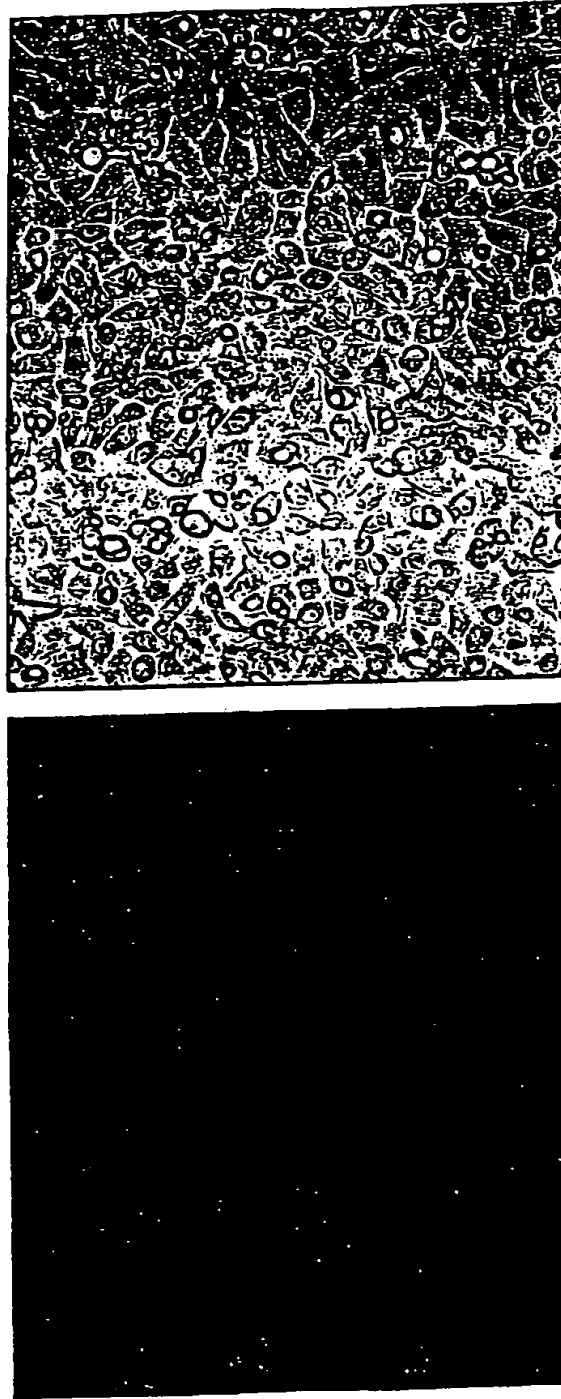


- Position of the 21 tested ODNs (|)
- mRNA transcript lengths = 7Kb and 11Kb
- coding sequence 46-4149

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Figure 10 Lipid-mediated uptake of oligonucleotide in keratinocytes



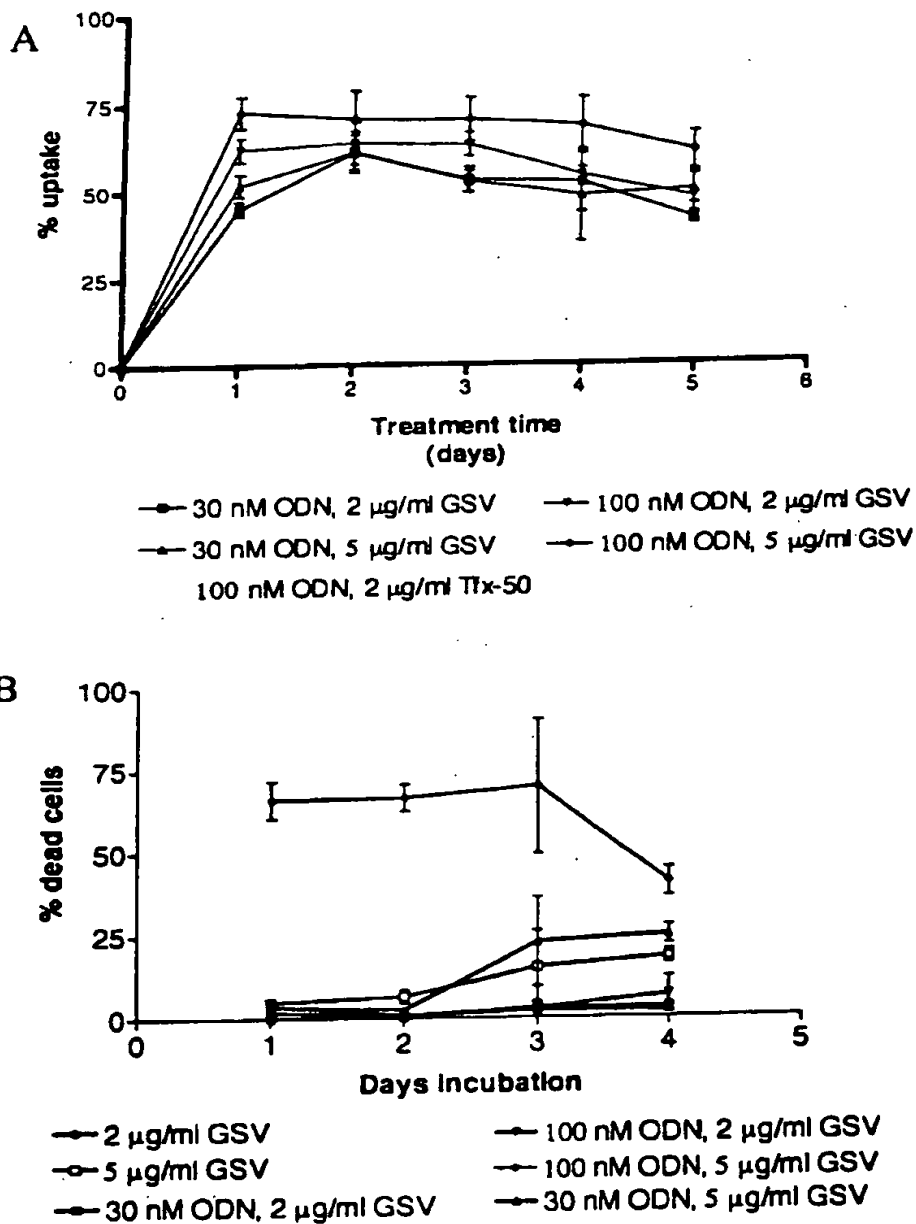
B

A

161 7 3368 2262

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Figure 11 Uptake (A) and toxicity (B) of ODN/ lipid complexes in keratinocytes



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Figure 12 IGF-I Receptor mRNA in ODN
treated (30nM) HaCaT cells (2 μ g/ml GSV)

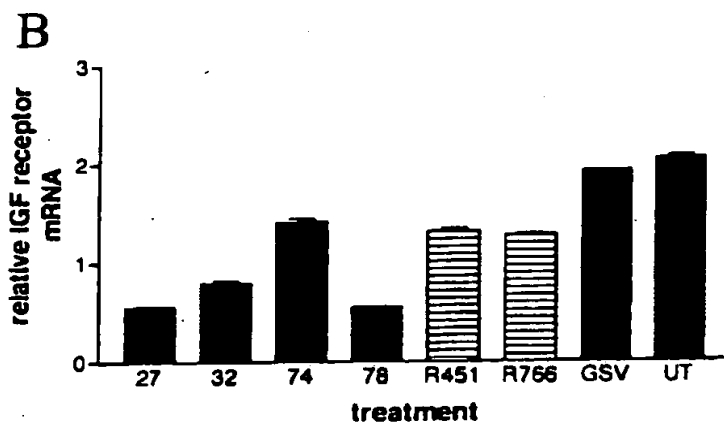
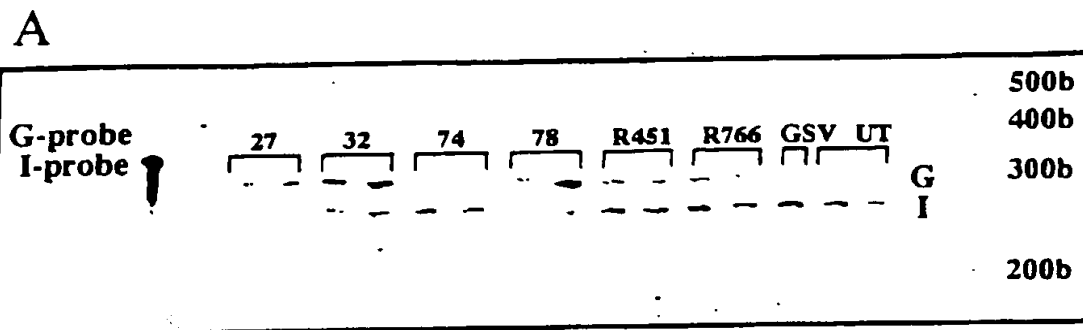
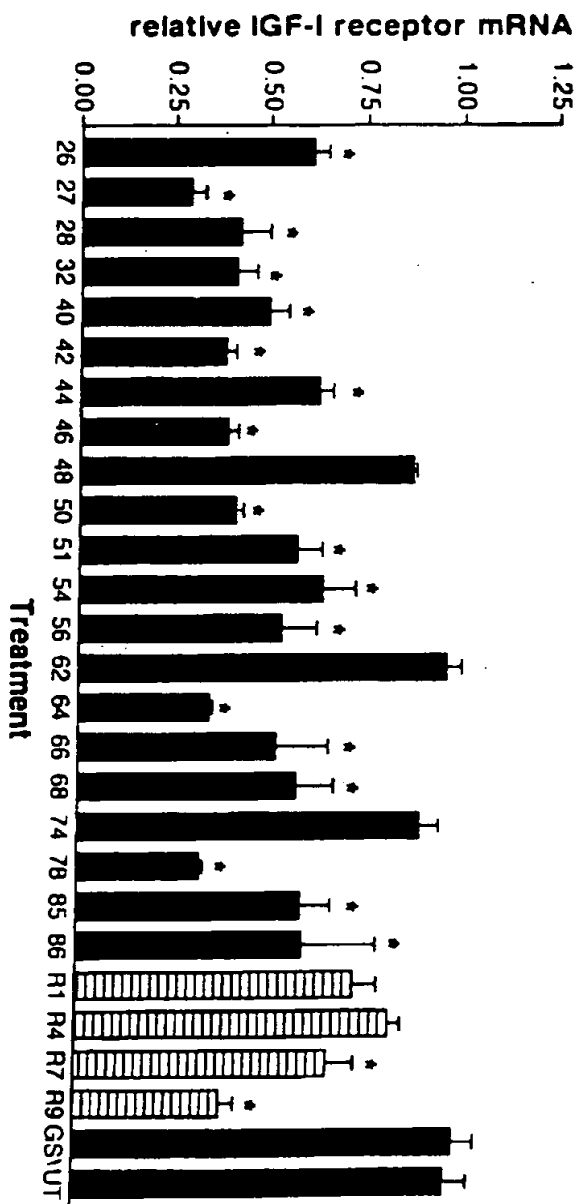


Figure 13 IGF-I receptor mRNA in ODN treated (30nM) HaCaT cells (2 μ g/ml GSV)



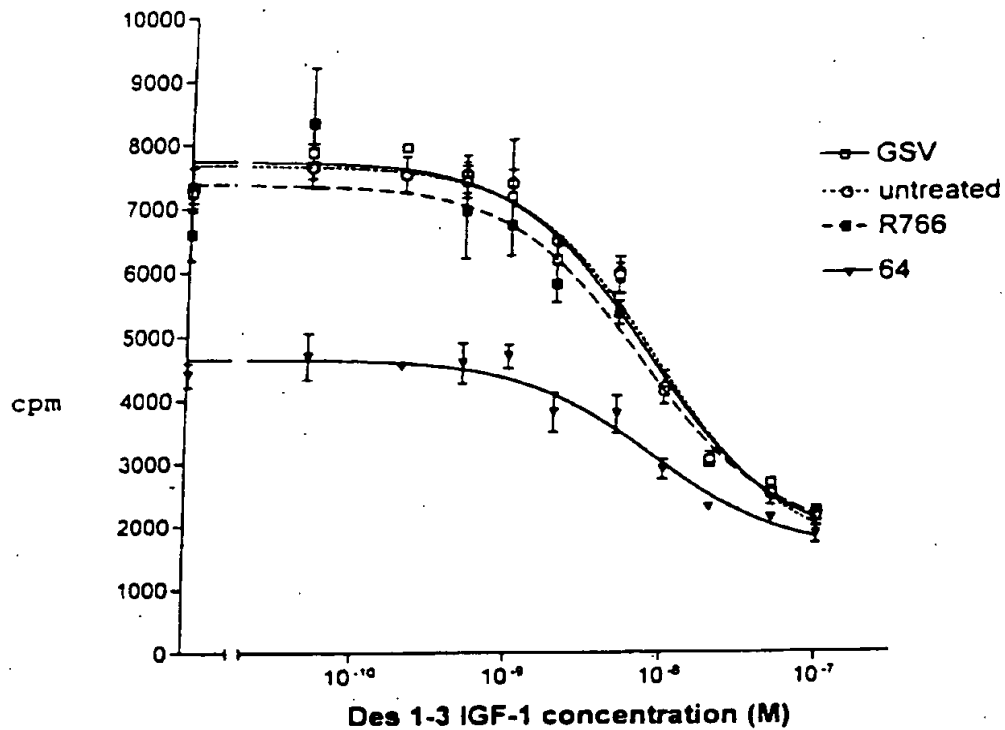
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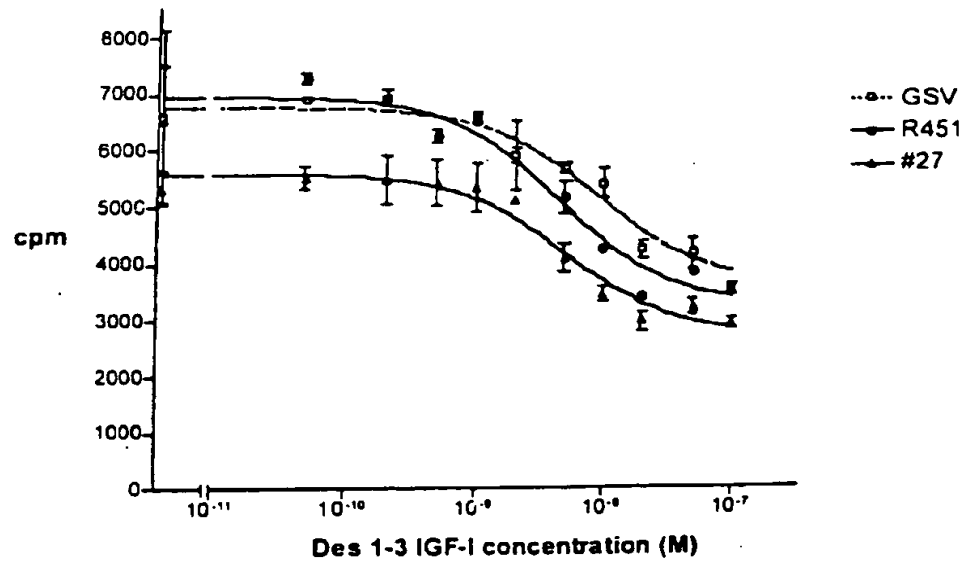
Figure 14

Effect of antisense oligonucleotides on IGF-1
receptor levels on the surface of keratinocytes:

Competition Assay - 125 I IGF-1 vs Des 1-3 IGF-1



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Figure 15**Effect of antisense oligonucleotides on
IGF-1 receptor levels on the surface of
keratinocytes:****Competition Assay - 125 I IGF-I vs Des 1-3 IGF-I**

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Figure 16 H&E stained sections of (A) psoriatic skin biopsy prior to grafting and (B) 49 day old psoriatic skin graft using skin from the same donor



A)



B)

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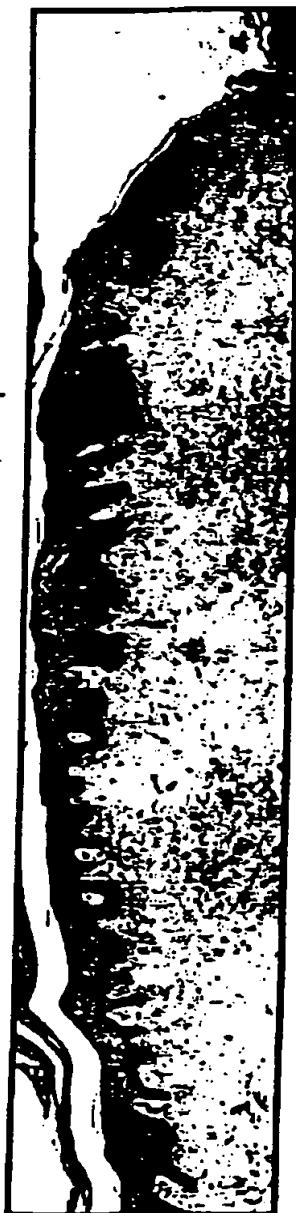
Figure 17 Uptake of oligonucleotide after intradermal injection
into psoriatic skin graft on a nude mouse



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Figure 18a

Pregraft, Donor JH

Donor JH, PBS treated, 50 μ lDonor JH, #50 treated, 50 μ l, 10 μ M

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Figure 18b

Donor LB, pregraft



Donor LB, PBS treated (50 μ l)



Donor LB, #74 treated (50 μ l, 10 μ M)



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Figure 18c

Donor PW, pregraft

Donor PW, R451 treated (50 μ l, 10 μ M)Donor LB, #74 treated (50 μ l, 10 μ M)

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Figure 18d

Donor GM, pregraft



Donor GM, R451 treated (50 μ l, 10 μ M)



Donor GM, #27 treated (50 μ l, 10 μ M)



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Figure 19a**Donor JH
Pregraft****Donor JH
PBS treated
50 ul****Donor JH
50 treated
50 ul, 10 uM**

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Figure 19b

Donor LB
Pregraft



Donor LB
PBS treated
50 ul



Donor LB
74 treated
50 ul, 10 uM



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Figure 19c

Donor PW
Pregraft



Donor PW
R451 treated
50 ul, 10 uM



Donor PW
#74 treated
50 ul, 10 uM



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Figure 19d

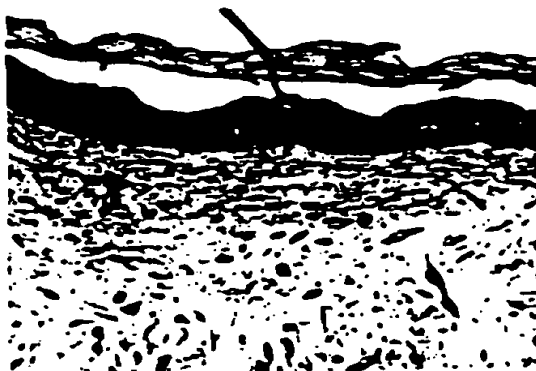
**Donor GM
Pregraft**



**Donor GM
R451 treated
50 ul, 10 uM**

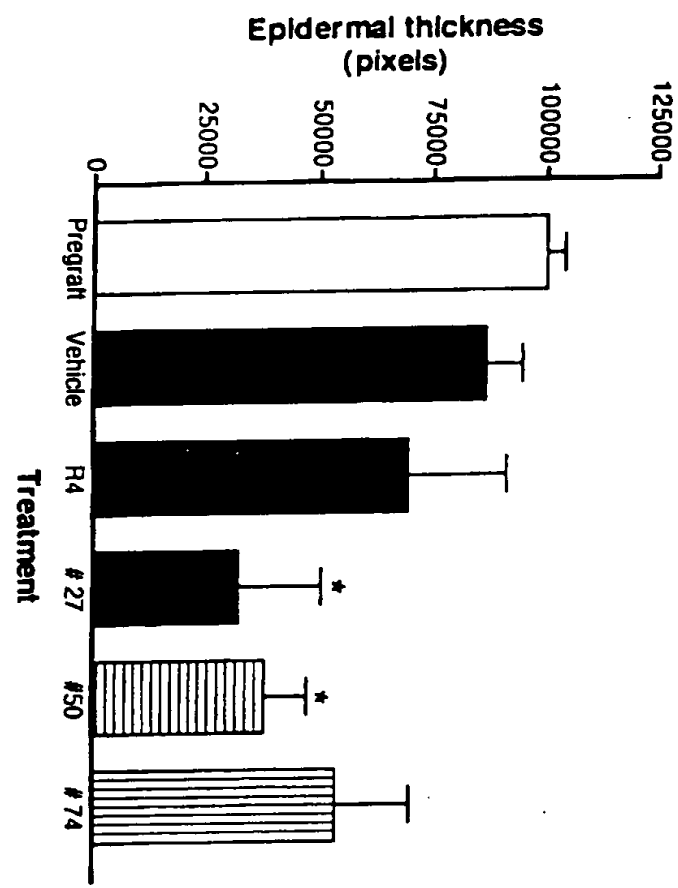


**Donor GM
27 treated
50 ul, 10 uM**



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Figure 20
Suppression of psoriasis after
treatment with oligonucleotide (quantification)

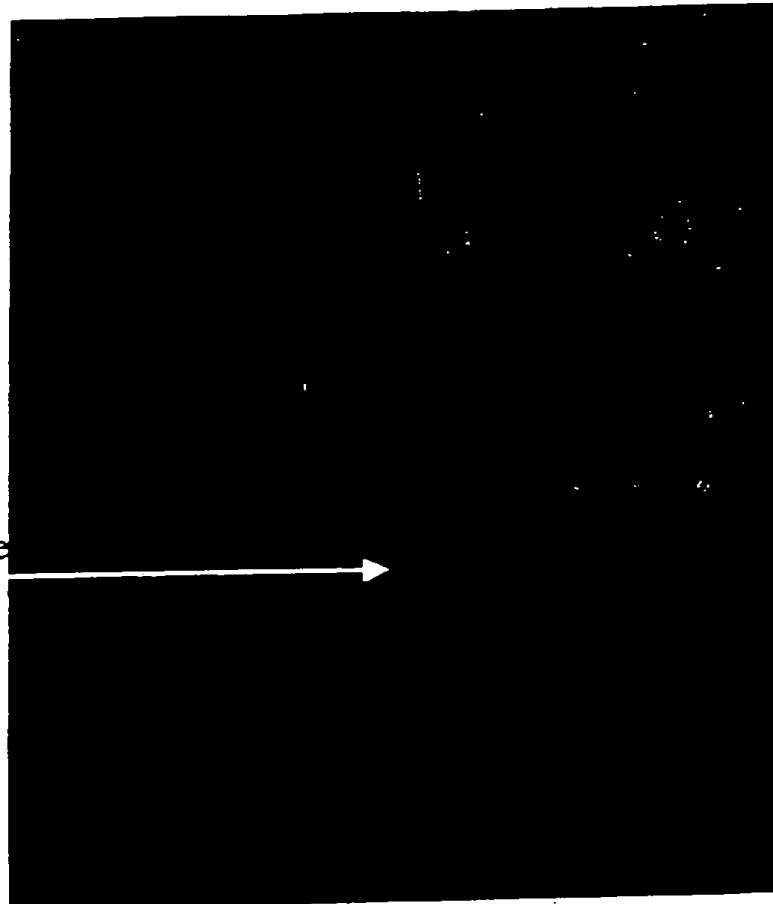


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Figure 22 Penetration of oligonucleotide into human skin after topical treatment

oligonucleotide
inside
target cell



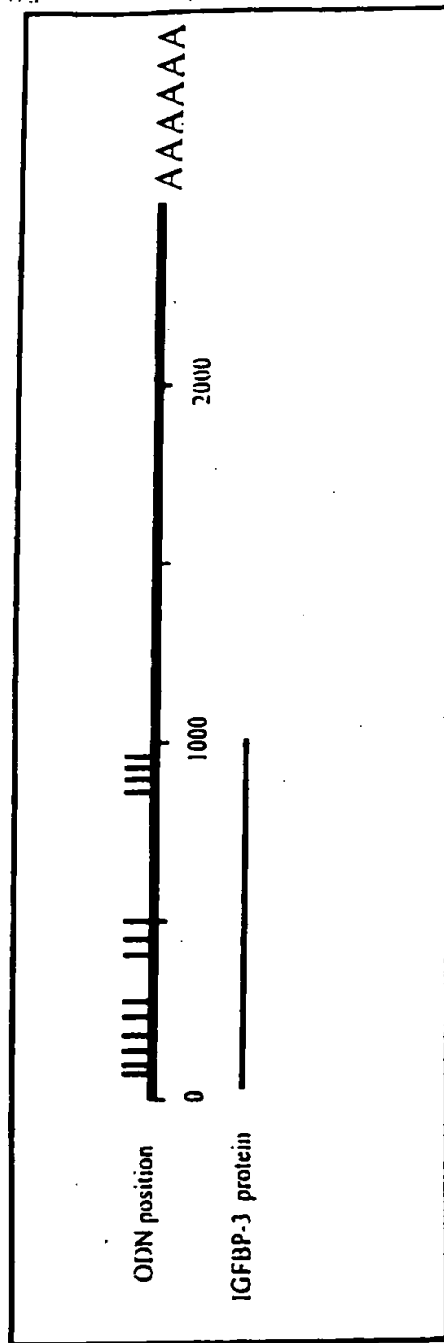
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Figure 23 Penetration of oligonucleotide into human skin after application of topical gel formulation



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IGFBP-3 mRNA



- Position of the 13 tested ODNs (I)
- mRNA transcript length = 2.5Kb
- coding sequence 133-1009

Figure 24

Figure 25a

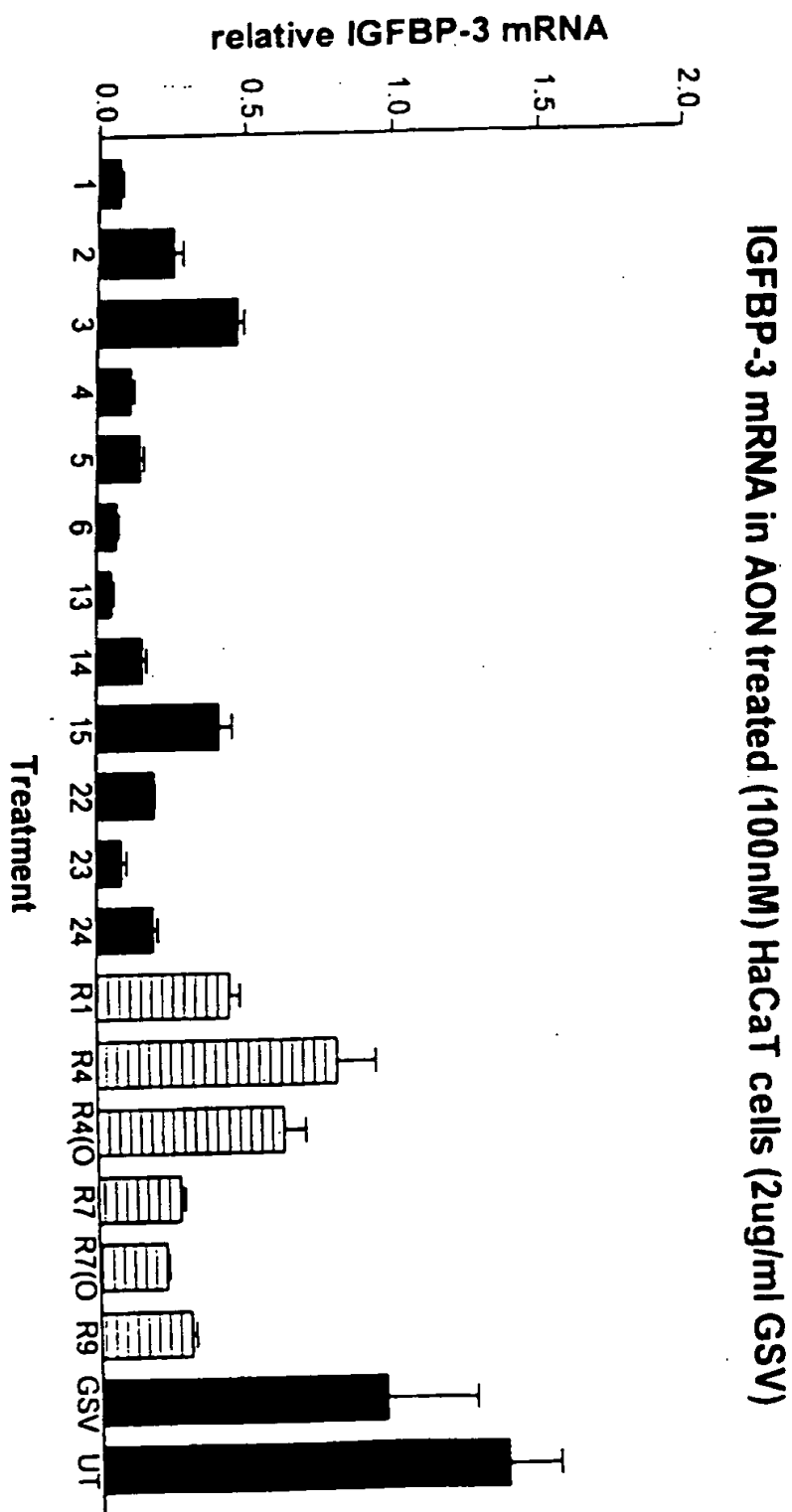
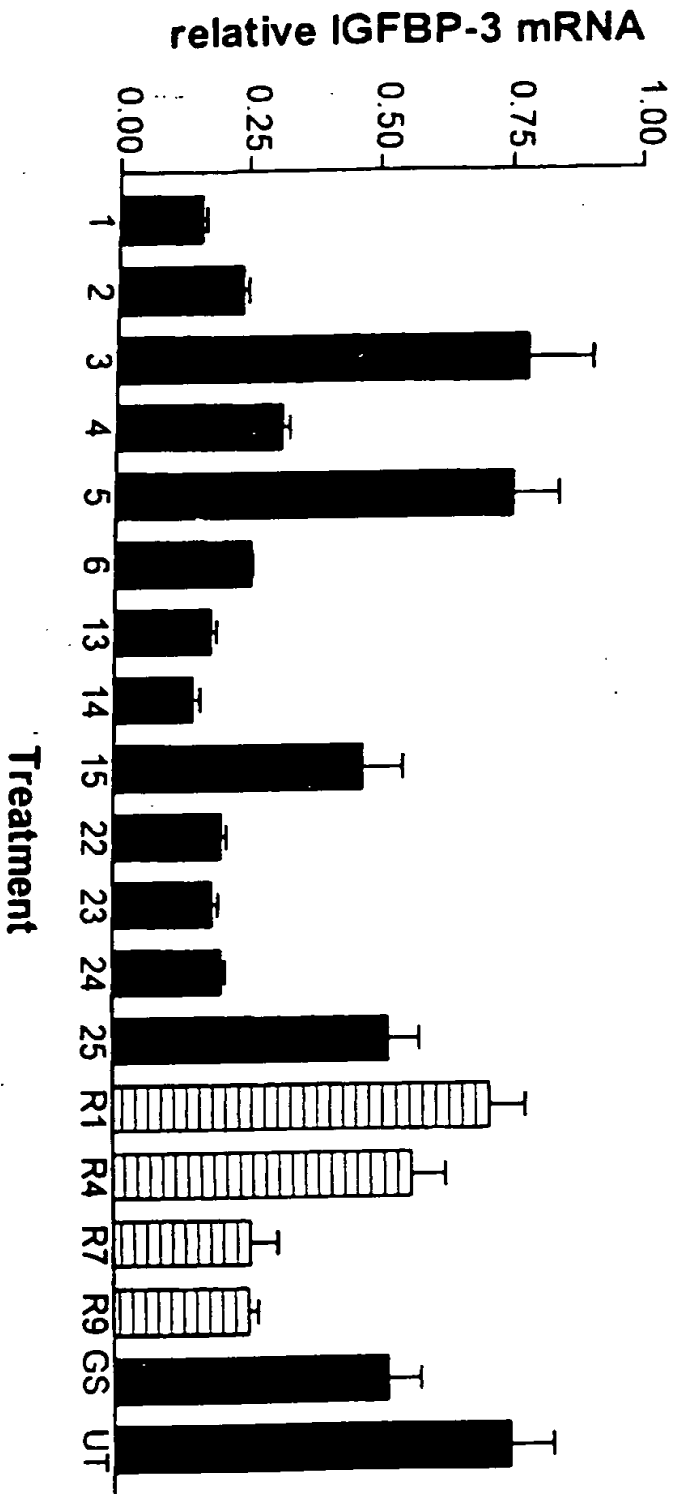


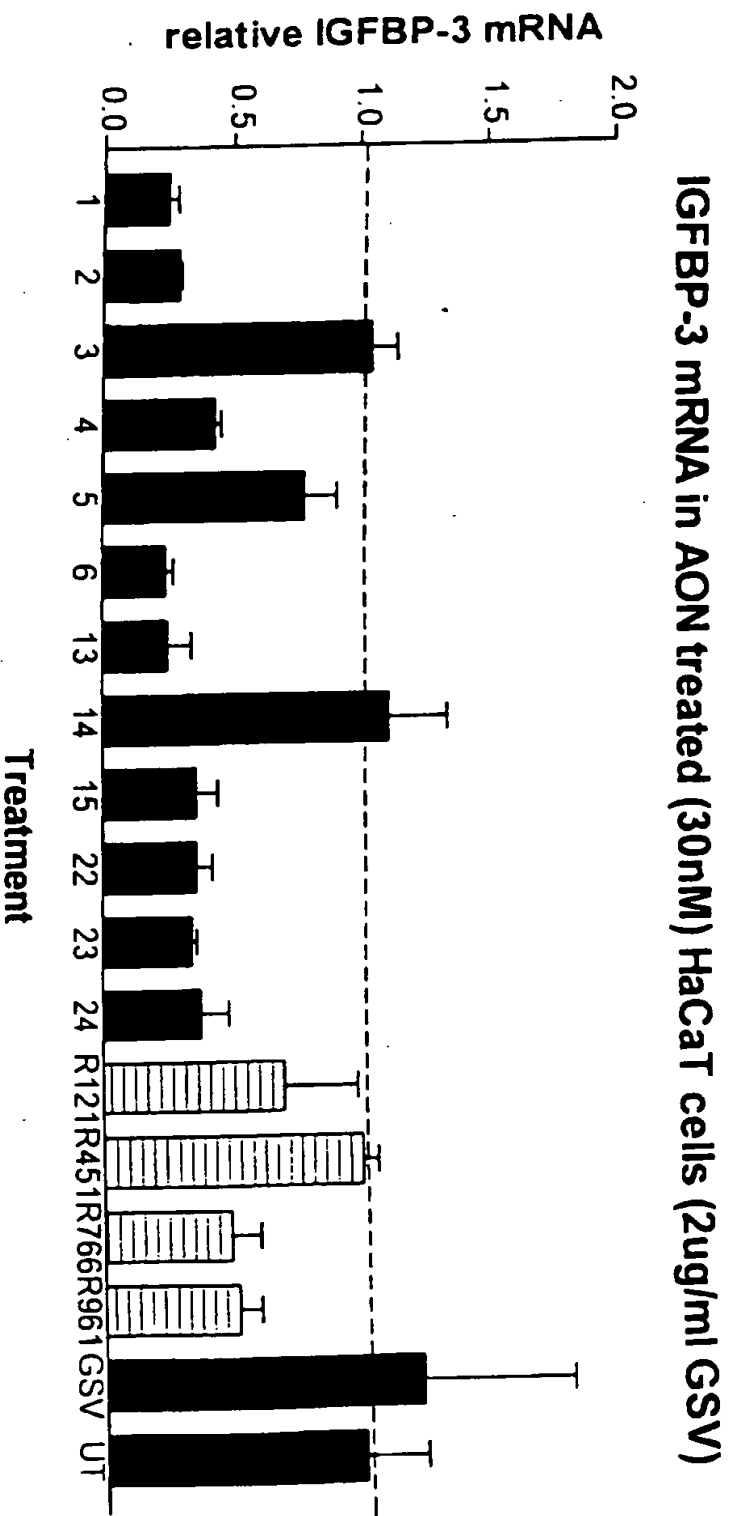
Figure 25b

IGFBP-3 mRNA levels in AON treated (100nM) HaCat cells
(2ug/ml GSV)



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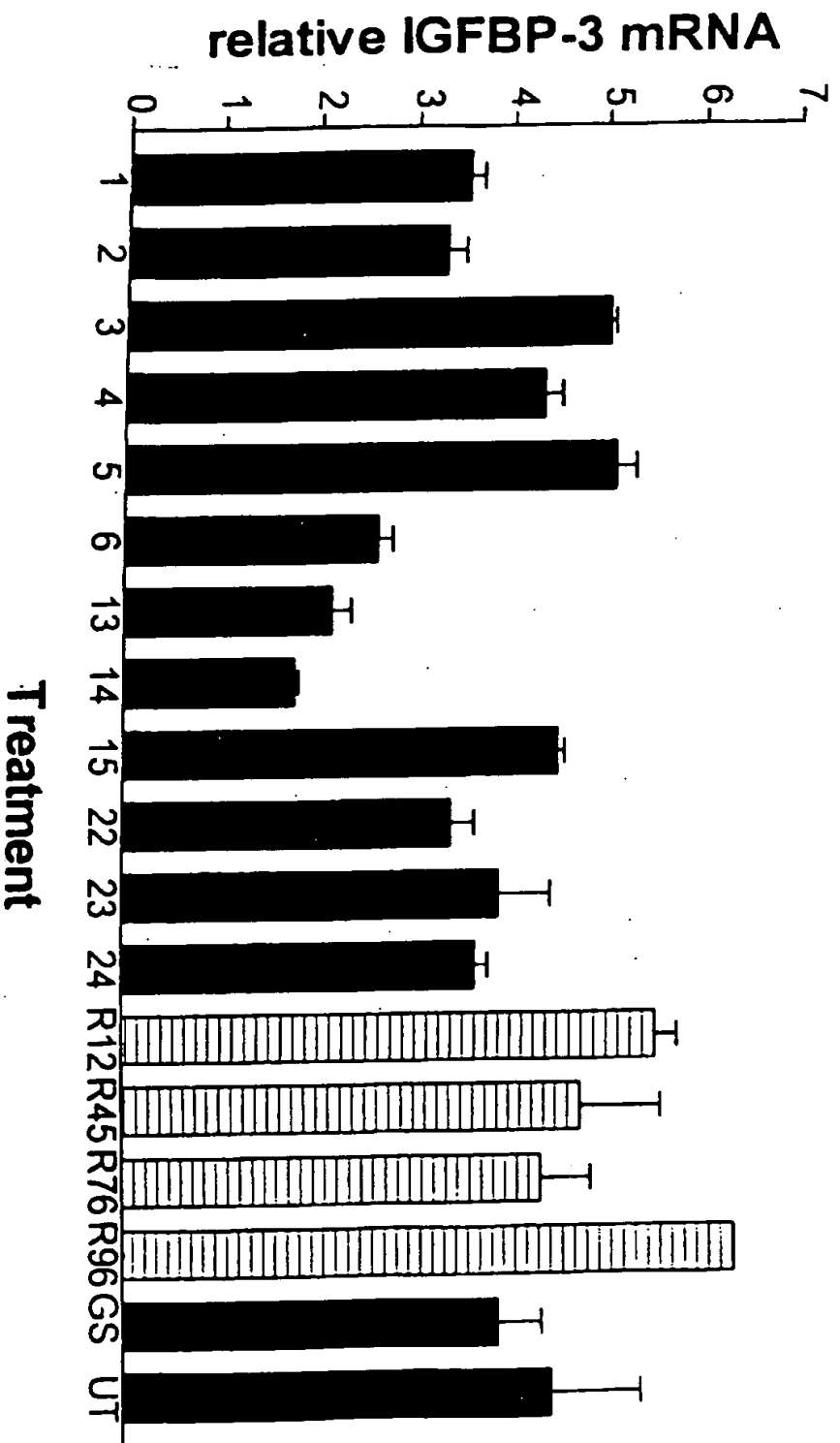
Figure 25c



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Figure 25d

IGFBP-3 mRNA in AON treated (30nM) HaCat
cells (2µg/ml GSV)



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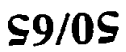
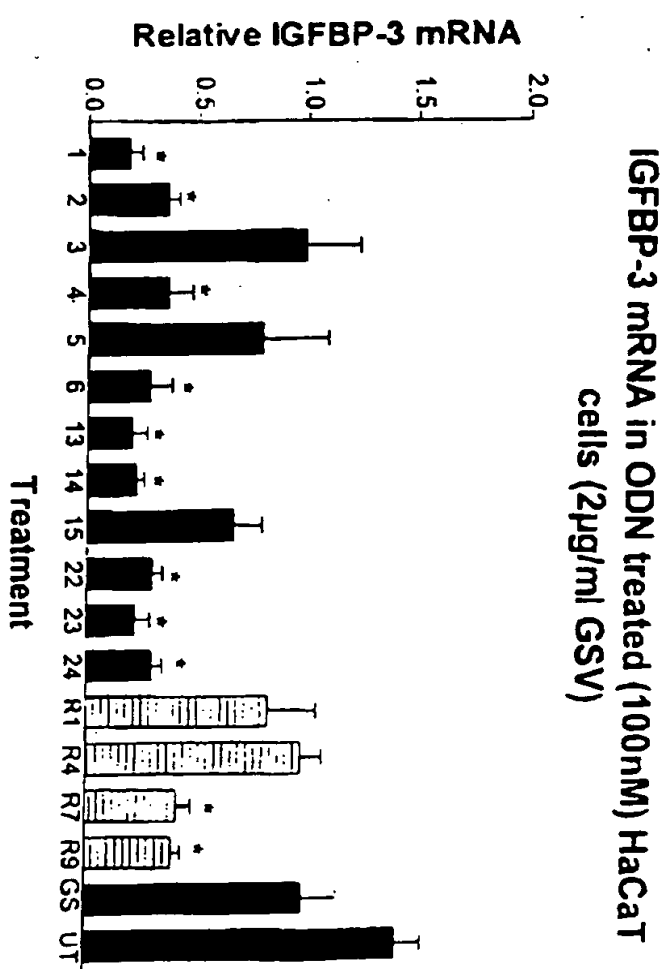


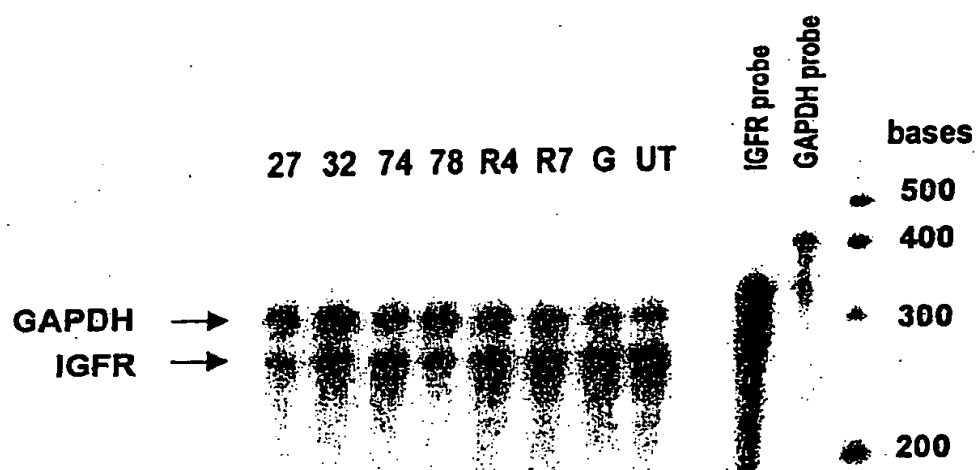
Figure 26b



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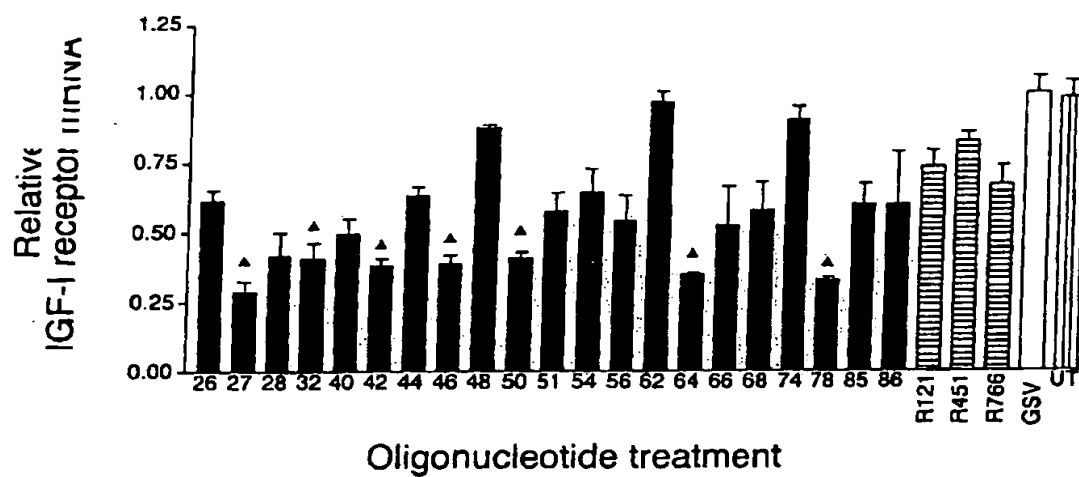
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Figure 27a



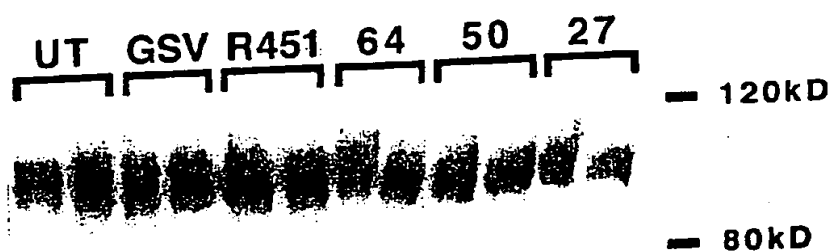
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Figure 27b



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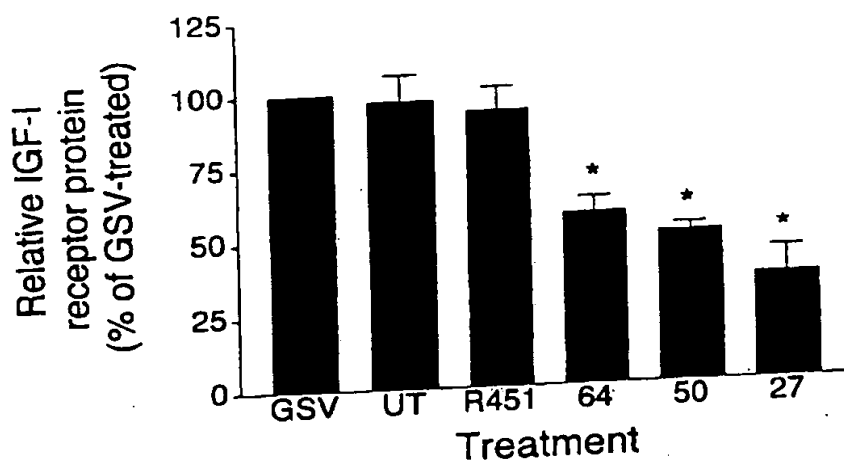
Figure 28a



007290-4286560

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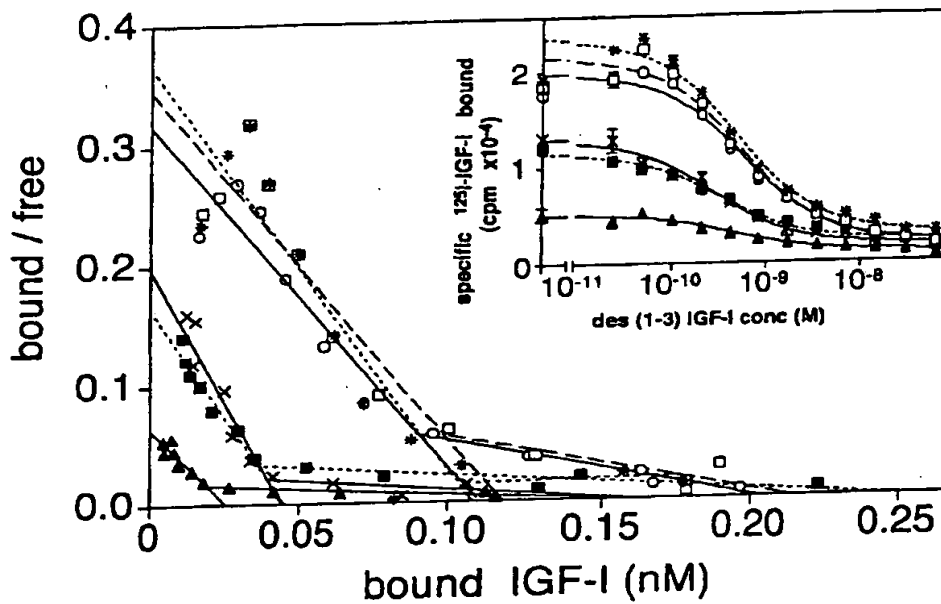
Figure 28b



0073907426560

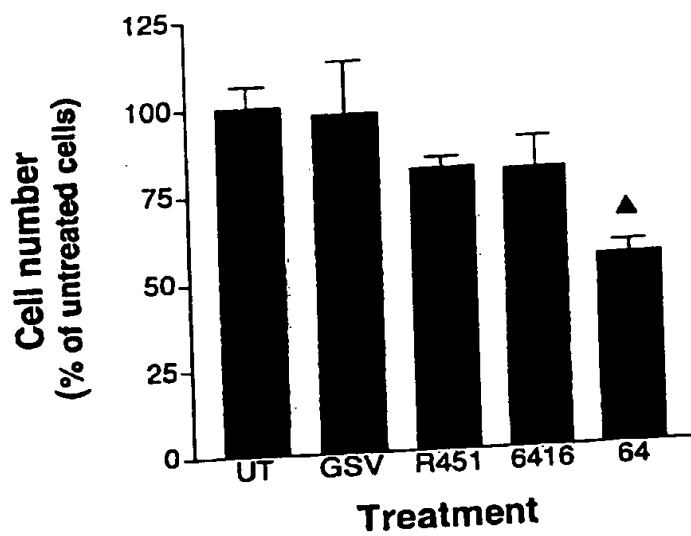
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Figure 29



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Figure 30



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Figure 31a

DONOR A

pregraft

AON #50

PBS

DONOR B

pregraft

AON #27

R451

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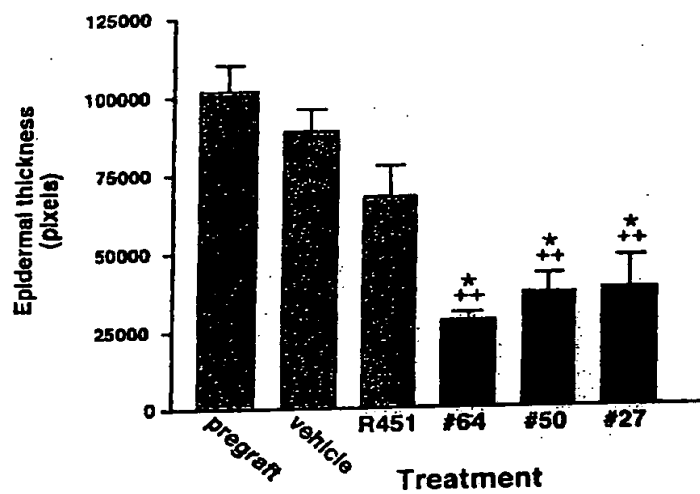


Figure 31b

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pregraft



AON #50



PBS

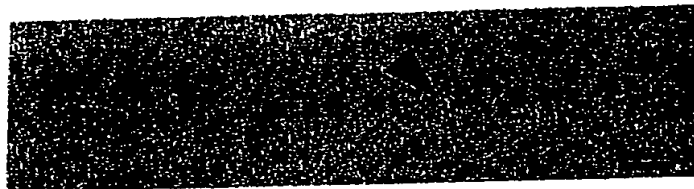


Figure 31c

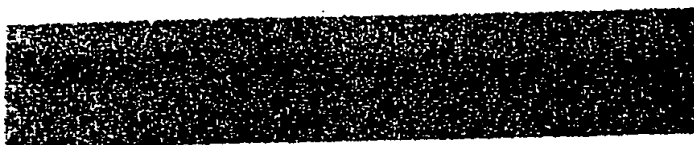
09593274.002400

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pregraft



AON #27



R451

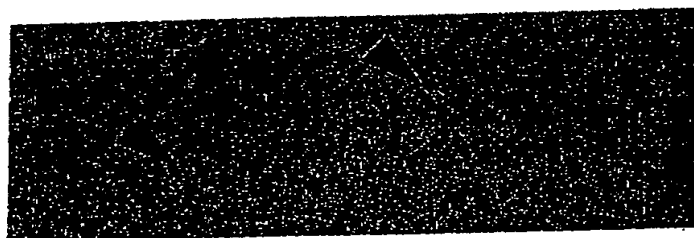


Figure 32a

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pregraft



AON #27



R451

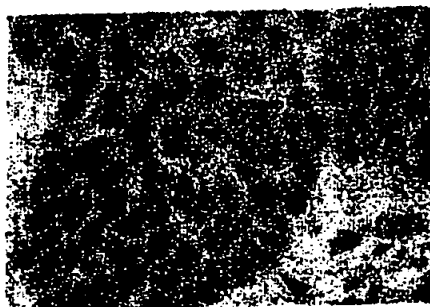


Figure 32b

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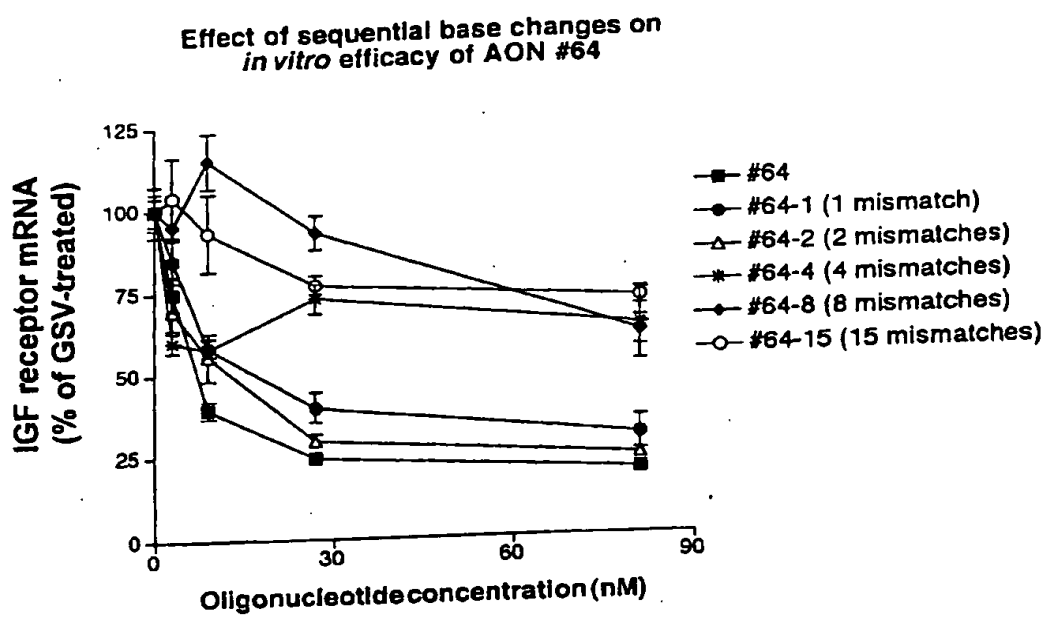
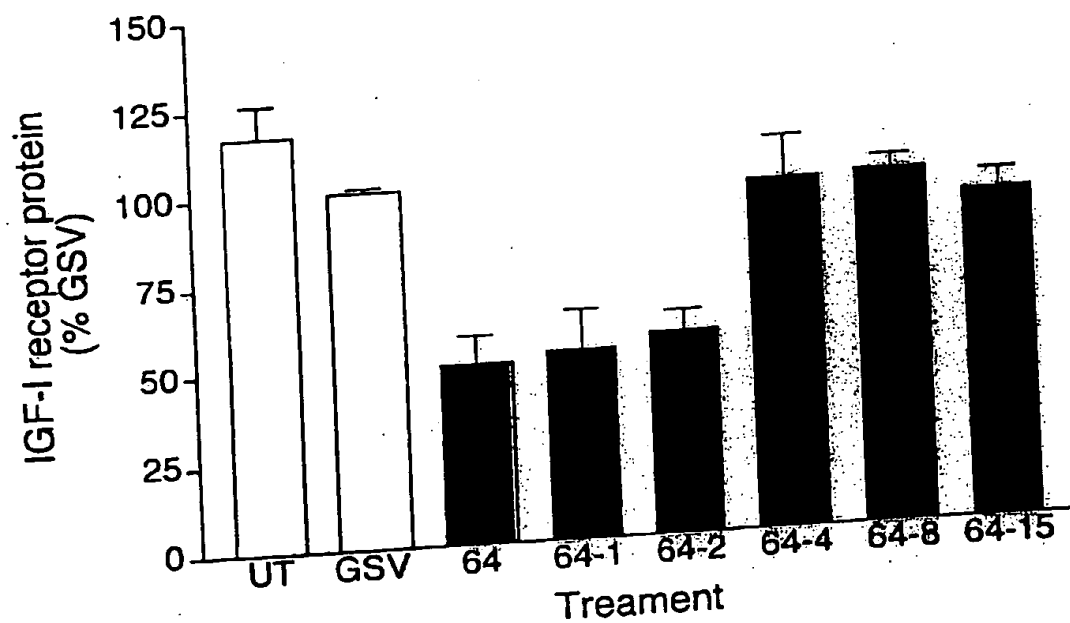


Figure 33

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Figure 34

IGF-I receptor immunoblots
30nM ODN, 4 x 24h treatments
2 expts in duplicate



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Figure 35

Amido black assay - 3 x 24h
treatments (15nM ODN, 2ug/ml
GSV)

